

## MEMORANDUM

TO: Vermont Adult Performance Indicator Project Advisory Group

FROM: John Pandiani  
Lisa Gauvin

DATE: August 27, 1997

RE: Inpatient Behavioral Health Care Average Daily Census by Region and  
Hospital Type for Vermont Adults 1995

This week's performance indicator report focuses on variation in inpatient behavioral health care practice patterns among Vermont's community mental health service areas. The analysis provides a broader overview of practice patterns than is frequently considered because it includes general hospitals, veterans' hospitals, and the Brattleboro Retreat in addition to the Vermont State Hospital.

If you would like a more detailed report on inpatient behavioral healthcare utilization by Vermont residents during 1990-1995, please call Pam Mack (802-241-2639) and ask for a copy of the latest Inpatient Behavioral Health Care Data Book.

We look forward to your comments on the quality of the data, the appropriateness of the analysis, and the effectiveness of the presentation of these data, as well as your interpretation of the results.

## **Inpatient Behavioral Health Care Average Daily Census by Region and Hospital Type for Vermont Adults 1995**

**Question:** Does the average daily census of adults receiving inpatient behavioral health care at different types of hospitals vary among Vermont catchment area community mental health?

**Data:** The average daily census for inpatient behavioral health care (mental health or substance abuse) was examined using extracts from the Health Department Hospital Discharge Data Set, the Brattleboro Retreat Client Database, and the Vermont State Hospital's Admission and Discharge Database. Together these data sets include records for all episodes of behavioral hospitalizations for Vermont residents occurring at VSH, Brattleboro Retreat, the veterans' hospital in White River Jct., and in general hospitals in Vermont and New Hampshire.

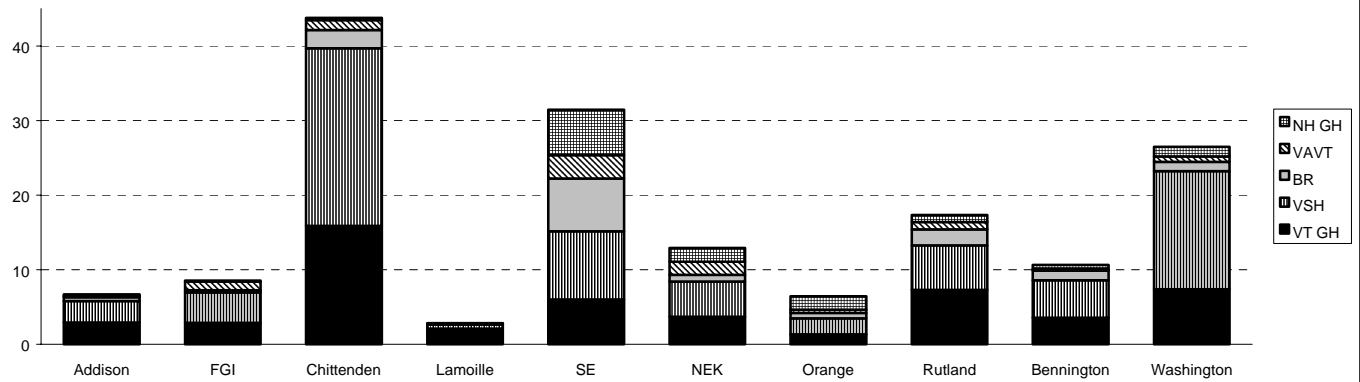
**Analysis:** The average daily census (ADC) is the average number of people hospitalized each day for each of the six years. ADC is calculated by dividing the total number of patient days used in each year by the number of days in the year. ADC per 100,000 population

**Results:** The average daily census for Vermont adults receiving inpatient behavioral health care varied substantially among mental health catchment areas during 1995. Chittenden had the highest average daily census (44) followed by Southeast (31) and Washington (26). Lamoille had the lowest average daily census (3).

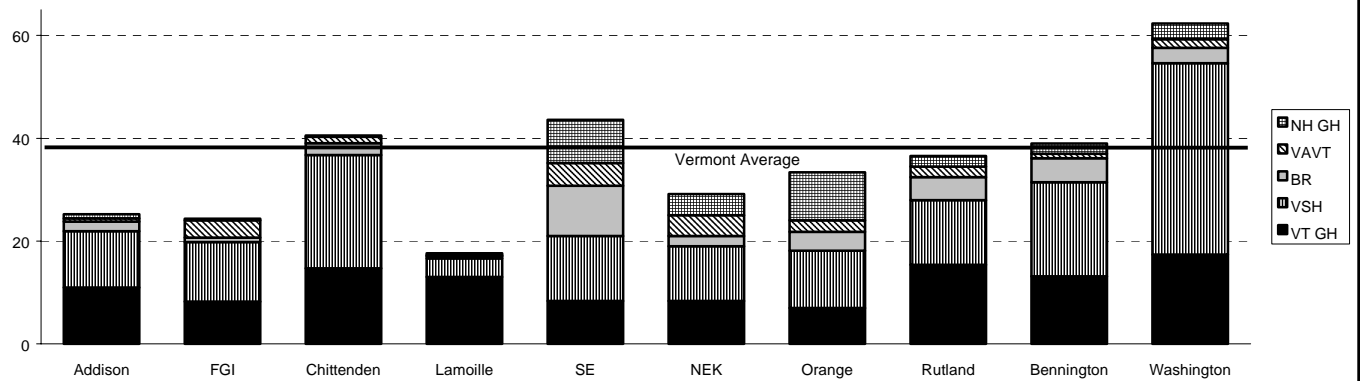
Hospitalization rates (ADC per 100,000 population) also varied substantially among service areas. Washington had the highest ADC per 100,000 population (62) followed by Southeast (44) and Chittenden (41). Washington had the highest utilization rate for the VSH (37) followed by Chittenden (22). Washington also had the highest utilization of Vermont general hospitals (17) followed by Rutland and Chittenden (15). Southeast had the highest utilization over the Brattleboro Retreat (10 per 100,000 population), and the highest utilization of the Veterans' Administration (4.4) followed by Northeast (4.0). The highest utilization rates for New Hampshire hospitals were found in the Orange (9.4) and Southeast (8.4) catchment areas.

**Next Questions:** How has utilization of these hospital types among residents of different geographical regions of Vermont changed over time? How do these utilization rates compare to other states in the region? Will the average daily census for inpatient behavioral health care at these facilities change with the introduction of Managed Care?

**Average Daily Census**



**Average Daily Census Per 100,000 Population**



**Average Daily Census**

Hospital Type	Total	Catchment Area of Residence									
		Addison	FGI	Chittenden	Lamoille	SE	NEK	Orange	Rutland	Bennington	Washington
<b>Total</b>	<b>167.1</b>	<b>6.7</b>	<b>8.5</b>	<b>43.8</b>	<b>2.8</b>	<b>31.4</b>	<b>12.9</b>	<b>6.4</b>	<b>17.3</b>	<b>10.6</b>	<b>26.5</b>
NH General Hospitals	13.2	0.2	0.1	0.3	0.1	6.1	1.8	1.8	1.0	0.5	1.3
Veteran's Hospital	10.0	0.2	1.2	1.4	0.0	3.2	1.8	0.4	1.0	0.2	0.7
Brattleboro Retreat	16.6	0.5	0.3	2.5	0.1	7.0	0.9	0.7	2.1	1.3	1.3
VSH	74.1	2.9	4.1	23.8	0.6	9.2	4.7	2.1	6.0	5.0	15.8
VT General Hospitals	53.1	2.9	2.9	15.9	2.1	6.0	3.7	1.3	7.3	3.6	7.4

**Average Daily Census Per 100,000 Population**

Hospital Type		Catchment Area of Residence									
		Addison	FGI	Chittenden	Lamoille	SE	NEK	Orange	Rutland	Bennington	Washington
<b>Total</b>	<b>38.1</b>	<b>25.2</b>	<b>24.3</b>	<b>40.5</b>	<b>17.6</b>	<b>43.6</b>	<b>29.1</b>	<b>33.4</b>	<b>36.5</b>	<b>39.0</b>	<b>62.3</b>
NH General Hospitals	3.0	0.8	0.3	0.3	0.3	8.4	4.1	9.4	2.0	2.0	3.0
Veteran's Hospital	2.3	0.7	3.4	1.3	0.2	4.4	4.0	2.2	2.0	0.9	1.7
Brattleboro Retreat	3.8	1.9	0.9	2.3	0.4	9.8	2.0	3.7	4.5	4.7	3.0
VSH	16.9	10.9	11.6	22.0	3.6	12.7	10.7	11.1	12.6	18.3	37.2
VT General Hospitals	12.1	10.9	8.2	14.7	13.0	8.3	8.3	7.0	15.4	13.1	17.4

Information is derived from the Hospital Discharge Data Set maintained by the Vermont Health Department, database extracts provided by the Brattleboro Retreat, and Vermont State Hospital Client Database maintained by the Vermont Department of Developmental and Mental Health Services. Vermont adults include all people age 18 or older.